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Curriculum Vitae

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Place of Birth:

Education:

1971 A.B. Princeton University, New Jersey
1975 M.D. Harvard Medical School, Boston, MA

Postdoctoral Training:

Internship and Residencies:

1975-1976 Intern in Medicine,
Massachusetts General Hospital, Boston, MA
1976-1978 Resident in Medicine
Massachusetts General Hospital, Boston, MA
1982-1984 Resident in Dermatology
Department of Dermatology
Harvard Medical School, Boston, MA
1984-1985 Chief Resident in Dermatology
Department of Dermatology
Harvard Medical School, Boston, MA

Research Fellowship:

1985-1988 Research Fellow in Immunology
Department of Pathology
Harvard Medical School, Boston, MA

Licensure and Certification:

1978-1990 Washington License Registration
1979 American Board of Internal Medicine, Certificate
1981- Massachusetts License Registration
1985 American Board of Dermatology, Certificate

Academic Appointments:

1979-1980 Clinical Instructor in Medicine
University of Washington School of Medicine, Seattle, Washington
1980-1981 Clinical Assistant Professor of Medicine
University of Washington School of Medicine, Seattle, Washington
1988-1991 Instructor in Dermatology
Department of Dermatology, Harvard Medical School
1991- Assistant Professor of Dermatology
Harvard Medical School, Boston, MA

Hospital Appointments or Affiliated Institution Appointments:

1978-1981 Internist
U.S. Public Health Service Hospital, Seattle Washington
1981-1982 Internist
Massachusetts General Hospital, Chelsea Health Center
1985- Active Staff
Dept Dermatology, Beth Israel Deaconess Medical Center
1988-1991 Assistant in Pathology
Massachusetts General Hospital, Boston, MA
1991-1996 Assistant in Dermatology
Massachusetts General Hospital, Boston, MA
1998- Chief of Dermatology, Harvard University Health Service

Other Professional Positions and Major Visiting Appointments:

1998 Visiting Professor Duke
1999 Visiting Professor University of Iowa

Major Administrative Responsibilities:

1998- Chief of Dermatology, Harvard University Health Service

Major Committee Assignments:

Medical School:

1987-1998 Residency Selection and Evaluation Committee
Department of Dermatology, Harvard Medical School
1987-1988 Curriculum Committee
Department of Dermatology, Harvard Medical School
1996- Council on Education
Harvard Medical School-Beth Israel Deaconess
Mount Auburn Institute for Education and Research
1999- Faculty Council
Harvard Medical School

Hospital:

1988-1992 Pharmacy and Therapeutics Committee Beth Israel Hospital
1990-1994 Committee on Research, Massachusetts General Hospital
1994-1996 Subcommittee on Review of Research Proposals
Massachusetts General Hospital

National:

- 1985-1995 Advisory Panel on Dermatology
The United States Pharmacopoeia Convention
1985-1990, 1990-1995 Revision Cycles
- 1987-1989 Self-Assessment Committee
American Academy of Dermatology
- 1995-1996 Merit Review Subcommittee on Immunology
Department of Veterans Affairs
- 2000- Epidemiology Committee
American Academy of Dermatology
- 2000- Chairman, Expert Committee on Dermatology
The United States Pharmacopoeial Convention
2000-2005 Revision Cycle
- 2002- Quality of Care Task Force
American Academy of Dermatology

Professional Societies:

- 1979-1982 American College of Physicians
- 1983-1985 Massachusetts Medical Society
- 1984- 1996 American Association for the Advancement of Science
- 1985- Society for Investigative Dermatology
- 1985- American Academy of Dermatology
- 1987- New England Dermatological Society
- 1987- Boston Dermatological Club
- 1987-1990 American Occupational Medical Association
- 1988-1990 American Federation for Clinical Research
- 1988-1992 Task force of Occupational and Environmental Dermatology, American Academy of Dermatology

Community Service Related to Professional Work

- 1990-1996 Science Fair Mentor
MGH-Timilty Partnership Project, Massachusetts General Hospital
- 1990-1997 Board of Directors
Lupus Foundation of America, Massachusetts Chapter.

Editorial Boards:

- 1985-1993 Book Review Editor
Archives of Dermatology
- 1992- Editorial Board
Archives of Dermatology
- 1995- Assistant Editor
Journal of the American Academy of Dermatology
- 1999- Evidence-Based Dermatology section editor
Archives of Dermatology
- 1999- Editor, Cochrane Skin Group, Cochrane Collaboration

Awards and Honors:

1971 Magna cum Laude in Chemistry, Princeton University
1971 Phi Beta Kappa
1971 Sigma Xi
1984-1988 Robert Wood Johnson Foundation
Minority Medical Faculty Development Award
1985 Letter of Commendation, Dean Daniel Federman
Teaching in Core Clinical Clerkship in Dermatology
1986 Eva Ljungwe Research Award
Dermatology Foundation and Herbert Laboratories
1988 Avon Products Research Fellowship Award
Dermatology Foundation and Avon Products, Inc.
2002 Service Award, Harvard University Health Service Research
Teaching and Clinical Contributions:

A. Narrative Report:

Teaching: Evidence-based medicine

Dermatologists believe that clinical decisions can be made on the basis of understanding the pathophysiology of diseases, logic, trial and error, and non-systematic observation. The most challenging issue facing the specialty is to challenge this paradigm and to help dermatologists base their practice on the best, currently available evidence. I have contributed to bringing evidence-based medicine into the dermatology lexicon especially in the US. This goal has been aided by publication of an issue of the Archives of Dermatology devoted to evidence based dermatology in December of 1998. (I was the special editor of this issue), and the establishment of a quarterly section of the Archives devoted to evidence based dermatology of which I am a substantially contributing editor. My contribution to educating dermatologists about evidence-based medicine also include numerous invited lectures (e.g. many academic institutions and the Philadelphia Dermatologic society), focus sessions and forums at the annual meeting of the American Academy of Dermatology, an opening session presentation at Academy 2000 (the annual summer meeting of the American Academy of Dermatology) and publication of two major review articles on evidence-based medicine in dermatology.

Dermatology at Harvard Medical School

I have been heavily involved in teaching dermatology to Harvard medical students for 17 years. In 1984 the medical school curriculum was revised to require all of the 3rd year class to take a "Core Clinical Clerkship in Dermatology." The responsibility to develop the curriculum, arrange the lectures and arrange and supervise patient viewing fell to me and fellow chief resident, -----
---. The course taught the basics of dermatologic diagnosis and therapy and was given to the entire class in 1-month blocks. It was well received. For our efforts we received a letter of Commendation from Dean Federman. I have been a lecturer and small group leader in "Pathophysiology of Skin" (now part of Human Systems Module I, IN708.0a) for 13 years and became co-director in 1996. I helped develop the curriculum, organized lectures, and arranged small group sessions. I developed the course web site with ----- (see <http://mycourses.med.harvard.edu/default.asp>). I am responsible for almost all of the web content and a large portion of the written content for the course. I also developed many of the techniques used to make the small group sessions interactive and interesting for the students. My evaluations for the lectures and small group sessions have been consistently among the highest for the course. I am the primary educator of Harvard Medical School dermatology residents on evidence-based medical practice. I conduct a 2 or 3-session review of evidence-

based medicine principles for the dermatology residents at the beginning of each academic year and then run a monthly evidence-based medicine centered journal club in which the principles are used and reinforced. Medical students doing the elective clinical rotation in dermatology (DE501M.J) attend these sessions. My weekly student and residency teaching clinical session is heavily devoted to evidence-based practice and is recognized and appreciated for its practicality and uniqueness. An abbreviated listing of the materials that I contribute to IN708.0a or DE501M.J is identified by asterisk in the bibliography. Computer assisted teaching in dermatology I developed a Dermatology Teaching Module on CD to teach medical students an approach to evaluating patients with skin disease. In the module, I interviewed, examined and evaluated a patient with a lesion and a patient with a rash. The module covers the performance and interpretation of office diagnostic procedures and skin biopsy. There is also a patient for the student to evaluate. The student's grasp of the principles of dermatological history taking, physical examination and laboratory testing is evaluated by a multiple-choice test. We are producing a website that contains a quality database of dermatologic images and text. A sophisticated, menu-driven search engine that utilizes keyword and concept searching will run the site. It will generate a weighted diagnosis or differential diagnosis based on input queries. The clinical presentation (typical and variants) of the items in the differential diagnosis will be available for viewing and brief summaries of the disorders will be provided. Finally, the program will provide efficient access to the best available information about management and things to consider in deciding whether patients would benefit from a referral to a dermatologist. Such a quick reference aid is becoming a necessity for clinical teaching of medical students and as a resource for PCPs, particularly for deciding whether a patient can be treated or needs to be referred to a dermatologist.

Clinical Contributions

I see patients at the Beth Israel Deaconess Medical Center privately and in a resident teaching session. As the chief of dermatology at Harvard University Health services I administer and provide patient care for an outpatient dermatology service that has 6000 patient visits per year. The department has 2 dermatologists, a dermatology nurse and 3 practice assistants. We also provide educational and consultative service for University Health Service primary care physicians and nurse practitioners.

B. Funding Information:

1/7/99-10/30/00 Dean's Clerkship Information Technology Innovation Fund,
Harvard Medical School, Michael Bigby MD (PI), Abrar Quereshi MD (Co-PI).
Virtual Dermatologist Web Site

C. Research Activities

Clinical Research/Evidence-based Medicine

Since entering dermatology, I have been interested in and have investigated the clinical decision making process and the evidentiary basis for decision making in dermatology. I did a cross sectional analysis of method reporting and use in clinical trials in dermatology. Finding that the methodology in dermatologic trials was generally poor led me to write a comprehensive review article for dermatologists on understanding and evaluating clinical trials. It also inspired me to seek additional training in practicing and teaching evidence-based medicine whose principles and practices I have introduced into dermatology by writing comprehensive reviews, short reviews, research commentaries, systematic reviews and a meta-analysis. I have also investigated the rates of cutaneous reactions to drugs based on the Boston Collaborative Drug Surveillance Program data, performed a systematic review of published studies reporting rates of reactions to drugs, and developed profiles of adverse reactions to non-steroidal anti-inflammatory drugs and to isotretinoin. Role of T cells in normal skin and inflammatory skin

diseases I did research centered on understanding the immunobiology of inflammatory skin diseases. We established T lymphocyte clones and keratinocyte lines from the same biopsy specimens of LP patients. Several of the clones have lytic activity against autologous lesional keratinocytes. We tested the hypothesis that CD8+ T cells that are cytotoxic towards autologous keratinocytes are involved in the pathogenesis of LP and that they can be cloned from lesional skin from LP patients and be used to identify autoantigens present in lesional keratinocytes. We developed an *in vitro* system for comparing dermal and epidermal T cell migration and adhesion to autologous keratinocytes cultured from the same human skin biopsy specimen. Lymphocyte migration and adhesion to autologous immortalized keratinocytes was assessed in calcein fluorimetric assays. Epidermal lymphocyte migrated towards autologous keratinocytes four times more than dermal lymphocytes. Epidermal lymphocytes adhere to autologous keratinocytes two to four times more than dermal lymphocytes. These data support the hypothesis that both directed migration (epidermotropism) and selective retention may be involved in the development of the epidermal T cell population.

Role of Ikaros in Lymphopoiesis

While I was in the Cutaneous Biology Research Center, my laboratory formed a close alliance with to study the role of Ikaros in lymphocyte development and homeostasis. Mice homozygous for a mutation that deletes sequences that encode part of the DNA binding domain of Ikaros proteins (DB -/-) exhibit a very early arrest in lymphocyte development. A second line of mice with a mutation that deletes sequences that encode the C-terminal domain of the Ikaros proteins (C-/-) have variable numbers of $\alpha\beta$ T cells but lack B cells and their earliest progenitors. $\gamma\delta$ T cells and NK cells were absent or significantly reduced in these mice. Mice heterozygous for the C-terminal mutation appear healthy and phenotypically normal. We assessed the phenotypic and functional consequences of normal and mutated Ikaros expression.

D. Teaching:

1. Local Contributions:

a. Harvard Medical School Courses:

1984-1985 Core Clinical Clerkship in Dermatology (Co-organizer, with Dr. Howard Koh). Entire third year class. Developed curriculum, organized lectures, and arranged patient viewing.

1988-1995 Pathophysiology of Skin (Lecturer and Small Group Leader). Second year class. Developed 1996- Pathophysiology of Skin (now part of Human Systems Module I) (Co-Director). Second year class. Developed curriculum, organized lectures, arranged small group sessions, developed course web site, lectured and led small group session.

1997-1998 Dermatology Teaching Module for Virtual Patient Project (Developer) all classes. Developed a Multimedia Teaching Module in Dermatology to teach students basics of history taking, physical examination and office procedures in evaluating patients with skin disease.

b. Graduate Medical Courses/Seminars/Invited Teaching Presentations:

1985- Beth Israel Deaconess Medical Center, Dermatology Seminars. Codirector. Twelve to 15 dermatology residents. Monthly, 1-hour session for the full year devoted to teaching evidence-based medicine in dermatology.

1985-1998 Beth Israel Deaconess Medical Center, Dermatology Seminars. Monthly, 1-hour session for a half year devoted to teaching basic science.

1985-1992 Occupational Skin Diseases (Lecturer). Harvard School of Public Health. Graduate students of Occupational Health

c. Continuing Medical Education Courses:

1995- Practical Dermatology for the Non-dermatologist (Lecturer), HMS CME.

d. Advisory and Supervisory Responsibilities in Clinical or Laboratory Setting:

1985- Attending Physician, Dermatology, resident teaching session, Beth Israel Deaconess Medical Center-East Campus. Eight residents, 12 to 20 medical students and 12 medical residents per year. One half day per week each year.

e. Leadership Roles:

1996- Co-Director. Pathophysiology of Skin (now part of Human Systems Module I). Developed curriculum, organized lectures, arranged small group sessions, developed course web site, lectured and led small group session.

2002 Scholar, the Academy at Harvard Medical School

2. Regional, National or International Contributions:

1 Invited Presentations

American Academy of Dermatology Annual Meeting. Focus session director. Symposium lecturer.

Lecture "Evidence-based Medicine, Quinsigamond Dermatological Society, University of Massachusetts.

Lecture "Evidence-based Medicine, Dermatology Teacher Exchange Group Visiting Professor, Duke University Medical School, Department of Dermatology

Visiting Professor, University of Iowa, Department of Dermatology. Lecture, Emerging Trends in Dermatology, Association of Professors of Dermatology

Opening Session "Dermatology Dilemmas in the New Millennium," Academy 2000, American Academy of Dermatology

Pommerening Memorial Lecture, Washington State Dermatology Association and Visiting Professor, Department of Dermatology University of Washington

Visiting Professor, Department of Dermatology, Emory University, School of Medicine, Atlanta, GA

Clinical Activities:

1978-1981 Attending Physician, Medicine, U.S. Public Health Service Hospital, Seattle, Washington

1979-1981 Emergency Room Director, U.S. Public Health Service Hospital Seattle, Washington

1985- Active Staff Dept of Dermatology and Attending Physician, Dermatology, Beth Israel Deaconess Medical Center

Bibliography

Original Reports:

1. Stern RS, Bigby M. An expanded profile of cutaneous reactions to nonsteroidal anti-inflammatory drugs: Reports to a specialty-based system for spontaneous reporting of adverse reactions to drugs. JAMA 1984;252:1433-37.
2. Bigby M, Stern RS. Cutaneous reactions to nonsteroidal anti-inflammatory drugs. J Am Acad Dermatol 1985;12:866-76.
3. Bigby M, Stern RS, Bigby J. An evaluation of method reporting and use in clinical trials in dermatology. Arch Dermatol 1985;121:1394-99.
4. Bigby M, Jick S, Jick H, Arndt KA. Drug induced cutaneous reactions: A report from the Boston Collaborative Drug Surveillance Program on 15,791 Consecutive Inpatients. 1975-82. JAMA 1986;256:3358-63.
5. Bigby M, Kwan T, Sy M-S. The ratio of Langerhans cells to Thy-1+ dendritic epidermal cells in murine epidermis influences the intensity of contact hypersensitivity. J Invest Dermatol 1987;89:495-99.
6. Wang PTH, Bigby M, Sy M-S. Selective down modulation of L3T4 molecules on murine thymocytes by the tumor promoter, phorbol 12-myristate 13 acetate. J Immunol 1987;139:2157-65.
7. Bigby M, Stern RS. Adverse reactions to isotretinoin: a report from the adverse drug reaction reporting system. J Am Acad Dermatol 1988;18:543-52.
8. Sleckman BP, Bigby M, Greenstein JL, Burakoff SJ, Sy MS, Requirements for Modulation of the CD4 Molecule in Response to PMA: Role of the Cytoplasmic Domain. J. Immunol 1989;142:1457-62.
9. Bigby M, Vargas R, Sy M-S. Production of antigen specific T-cell hybridomas and their use to study the effects of UVB irradiation on the development of contact hypersensitivity. J. Immunol 1989;143:3867-72.
10. Bigby M, Wang P, Fierro JF, Sy M-S. Phorbol-myristate-acetate induced down modulation of CD4 is dependent on calmodulin and intracellular calcium. J Immunol 1990;144:3111-16.

11. Kalivas J, Breneman D, Tharp M, Bruce S, Bigby M. Urticaria: clinical efficacy of citirizine in comparison with hydroxyzine and placebo. *J Allergy Clin Immunol* 1990;86:1014-18.
12. Phillips TJ, Bigby M, Bercovitch L. Cultured allografts as an adjunct to the medical treatment of problematic leg ulcers. *Arch Dermatol* 1991;127:799-801.
13. Dunn DA, Gadenne A-S, Simha S, Lerner EA, Bigby M, Bleicher PA. T-cell receptor V β expression in normal human skin. *Proc Natl Acad Sci USA* 1993;90:1257-71.
14. Bigby M, Markowitz JS, Bleicher PA, Grusby MJ, Simha S, Siebrecht M, Wagner M, Nagler-Anderson C, Glimcher LH. Most $\gamma\delta$ T cells develop normally in the absence of MHC class II molecules. *J Immunol* 1993;151:4465-75.
15. Guo Y-J, Ma J, Wang J-H, Lin S-C, Chang H-C, Bigby M, Sy M-S. Monoclonal anti-CD44 antibody acts in synergy with anti-CD2 but inhibits anti-CD3 or T cell receptor mediated signaling in murine T cell hybridomas. *Cellular Immunol* 1993;152:186-99.
16. Guo Y-J, Lin S-C, Wang J-H, Bigby M, and Sy M-S. Palmitoylation of CD44 interferes with CD3-mediated signaling in human T lymphocytes. *International Immunology* 1994;6:213-21.
17. Guo Y, Ma J, Wang J-H, Che X, Narula J, Bigby M, Wu M and Sy M-S. Inhibition of human melanoma growth and metastasis *in Vivo* by anti-CD44 monoclonal antibody. *Cancer Research* 1994;54:1561-65.
18. Ma J, Wang J-H, Sy M-S, Guo Y-J, Hauser C, Bigby M. Trinitrophenol reactive T-cell hybridomas recognize antigens that require antigen processing. *J Invest Dermatol*, 1994;103:42-48.
19. Gadenne, A-S, Strucke, R, Dunn, D, Wagner, M, Bleicher, P and Bigby, M. T-Cell Lines Derived from Lesional Skin of Lichen Planus Patients Contain a Distinctive Population of T Cell Receptor $\gamma\delta$ Bearing Cells. *J Invest Dermatol*, 1994;103:347-51
- 20 Ma J, Wang J-H, Guo Y-J, Sy M-S and Bigby M. *In Vivo* Treatment with Anti-ICAM-1 and Anti-LFA-1 Antibodies Inhibits Contact Sensitization Induced Migration of Epidermal Langerhans Cells to Regional Lymph Nodes. *Cellular Immunol*, 1994, 158:389-99.
- 21 Georgopoulos K, Bigby M, Wang J-H, Molnar A, Wu P, Winandy S and Sharpe A. The Ikaros gene is required for the development of all lymphoid lineages. *Cell*, 1994, 79:143-56.
- 22 Wang J-H, Nichogiannopoulou A, Wu I, Sun L, Sharpe A, Bigby M and Georgopoulos K. Selective defects in the development of the fetal and adult lymphoid system in mice with an Ikaros null mutation. *Immunity*, 1996;5:537-549.
- 23 Sugerman PB, Bigby M. Preliminary functional analysis of human epidermal T cells. *Arch Derm Res* 2000; 292: 9-15.

24 Tsao H, Nadiminti U, Sober AJ, Bigby M. A meta-analysis of reverse transcriptase polymerase chain reaction for tyrosinase mRNA as a marker for circulating tumor cells in cutaneous melanoma. *Arch Dermatol*. 2001 Mar;137(3):325-30.

25 Bigby M. Rates of cutaneous reactions to drugs. *Arch Dermatol*. 2001 Jun;137(6):765-70.

26 Bigby M, Gibbs S, Harvey I, Sterling J. Skin disorders/Non-genital warts. In *Clinical Evidence* Issue 7 2002:1530-42.

Clinical Communications:

1. Bigby M, McKoy K. Acrocyanosis with atrophy. *Arch Dermatol* 1988;124:263-68.

2. Baden L, Bigby M, Kwan T. Persistent necrotic digits in a patient with the acquired immunodeficiency syndrome. Herpes simplex virus infection. *Arch Dermatol* 1990;127:113,116.

Reviews and Educationally Relevant Publications: Comprehensive review article in refereed journal:

1. Bigby M, Stern RS, Arndt KA. Allergic cutaneous reactions to drugs. *Prim Care*. 1989 Sep;16(3):713-27.

2. Bigby M, Gadenne A-S. Understanding and evaluating clinical trials. *J Am Acad Dermatol* 1996, 34:555-583.

3. Bigby M. Evidence-based medicine in a nutshell: finding and using the best evidence in caring for patients. *Arch Dermatol* 1998, 134:1609-17.

4. Bigby M. Evidence-based medicine in dermatology. *Dermatologic Clinics*. 2000 in press.

5. Sugerman PB, Savage NW, Zhou X, Walsh LJ, Bigby M. Oral lichen planus. *Clin Dermatol*. 2000 Sep-Oct;18(5):533-9. Review.

6. Sugerman PB, Savage NW, Walsh LJ, Zhao ZZ, Zhou XJ, Khan A, Seymour GJ, Bigby M. The pathogenesis of oral lichen planus. *Crit Rev Oral Biol Med* 2002;13:350-65.

Analytic clinical reviews, clinical observations, educational studies in refereed journals:

1. Bigby M, Arndt KA. Contempo 1985 - Dermatology. *JAMA* 1985;254:2283-86.

2. Bigby M, Arndt KA. Contempo 1986 - Dermatology. *JAMA* 1986;256:2084-86.

3. Bigby M. Transdermal Clonidine Dermatitis. *JAMA* 1987;258:1819.

4. Bigby M. Dermatitis and the risk of HIV infection. *JAMA* 1988;259:3184-85.

5. Bigby M. Nonsteroidal anti-inflammatory drug reactions. In Seminars in dermatology, Shear NH, Maibach HI (eds).1989 pp. 182-186.
6. Bigby M. Everyone wants to go to heaven, but nobody wants to die. Am J Dermatopathol 1994;16:329-31.
7. Bigby M. Ruling out the diagnosis. Editorial. Arch Dermatol 1996;132:697-8.
8. Bigby M. Call for papers: evidence-based medicine. Arch Dermatol, 1998,. 134:227.
9. Bigby M. Snake oil for the 21st century. Arch Dermatol, 1998, 134:1512-13.
10. Bigby M. Welcome to evidence-based medicine. Arch Dermatol 1998, 134:1516-17.
11. Bigby M. Welcome to the "evidence-based dermatology" section in the . Archives of Dermatology. Arch Dermatol 1999, 135:1512.
12. Abeni D, Bigby M, Pasquini P, Szklo M, Williams H. "Evidence-based dermatology" section in the . Archives of Dermatology purpose and procedure. Arch Dermatol 1999, 135:1512-1513.
13. Bigby M. The sunscreen and melanoma controversy. Arch Dermatol 1999, 135:1526-1527.
14. Bigby M. Paradigm Lost. Arch Dermatol 2000; 136:26-27.
15. Bigby M. Confidence intervals. Arch Dermatol 2000;: Mar;136(3):386-7.
16. Bigby M. A Systematic review of the treatment of scabies. Arch Dermatol 2000; Mar;136(3):387-9.
17. Bigby M. Odds Ratios and Relative Risks. Arch Dermatol 2000, Jun;136(6):770-1.
18. Bigby M.A Remarkable Result of a Double-Masked, Placebo-Controlled Trial of Erythromycin the Treatment of Pityriasis Rosea. Arch Dermatol. 2000 Jun;136(6):775-776.
19. Liu V, Bigby M.. Reactivation of genital herpes simplex virus 2 infection in asymptomatic seropositive persons is frequent. Arch Dermatol. 2000 136:1141-2.
20. Chartier T, Bigby M. Rational follow-up recommendations for patients with melanoma. Arch Dermatol. 2000 Sep;136(9):1145-7.
21. Bigby M. Sunscreens, nevi, and melanoma revisited. Arch Dermatol. 2000 Dec;136(12):1549-50.
22. Bigby M. Challenges to the hierarchy of evidence: does the emperor have no clothes? Arch Dermatol. 2001 Mar;137(3):345-6.
23. Bigby M. A population-based estimate of the prevalence of post-herpetic neuralgia after herpes zoster. Arch Dermatol. 2001 Jun;137(6):789-90.

24. Bigby M. Incidence, prevalence and the rates of cutaneous reactions to drugs. *J Eur Acad Dermatol Venereol*. 2000 Nov;14(6):435.
25. Bigby M. A thorough systematic review of treatments for atopic eczema. *Arch Dermatol*. 2001 Dec;137(12):1635-6.
26. Bigby M. The placebo effect: and another one bites the dust. *Arch Dermatol*. 2001 Dec;137(12):1639-40.
27. Albrecht J, Bigby M. The meaning of "Safe and Effective." *J Am Acad Dermatol* 2003 48:144-7.

Text Books

1. Olbricht S, Bigby M, Arndt K, eds.. *Manual of Clinical Problems in Dermatology*. Boston: Little, Brown and Company, 1992.
2. Williams HC, Bigby M, Diepgen T, Herxheimer A, Naldi L and Rzany B. Evidence-Based Dermatology. London:BMJ Books (in press).

Chapters in Books:

1. Arndt K, Bigby M. Skin Disorders. In: Levy BS, Wegman DH, eds., *Occupational Health*. Boston, MA, Little, Brown and Company, 1988:371-85.
2. Bigby M, Stern RS, Arndt KA. Allergic cutaneous reactions to drugs. In: Pariser RJ, ed., *Primary Care*, W.B. Saunders, 1989:713-27.
3. Bigby M, Arndt KA. Prevention of occupational skin diseases. In: Wagner G, Levy B, Weeks J, eds. *Preventing Occupational Disease and Injury*., American Public Health Association, Boston, MA, 1991.
4. Bigby M. Nonsteroidal antiinflammatory drugs: uses in dermatology and cutaneous toxicity. In: Lewis, Fyrst, eds. *Nonsteroidal Anti-inflammatory Drugs: Mechanisms and Clinical Uses, Second Edition*, Marcel Dekker, Inc., 1993:207-16.
5. Coopman S, Bigby M, Arndt K. Skin Disorders. In: Levy BS, Wegman DH, eds. *Occupational Health*, Little, Brown and Company, 1994:491-506.
6. White C, Bigby M, Sanqueza O. What is normal skin? anatomy, regional, age, and racial differences in skin. In: Arndt KA, LeBoit P, Robinson J, Wintrob B, eds. *Cutaneous Medicine and Surgery*, W.B. Saunders Company, 1995:3-45.
7. Gadenne A-S, Bigby M, Camisa C. Lichen planus and related disorders. In: Arndt KA, LeBoit P, Robinson J, Wintrob B, eds. *Cutaneous Medicine and Surgery*, W.B. Saunders Company, 1995:235-243.
8. Bigby M. Dermatology. In Armitage P and Colton T, eds. *Encyclopedia of Biostatistics*, John Wiley & Sons Ltd.

9. Bigby ME, Arndt KA and Coopman SA. Skin Disorders In: Levy BS, Wegman DH, eds. *Occupational Health*, 4th ed Lippincot Williams & Wilkins, 1999:537-552.

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Books and Monographs (other than text books)

Bigby M, David AK, Brown AE. Recognition and Management of Skin Diseases in People of Color. Glaxo Inc. Medical and Professional Education, 1996.

Non-Print Materials

1. Bigby M. Nonsteroidal anti-inflammatory drugs. *Dialogues in Dermatology* 1987;20:#4.

2. Bigby M. Evidence based medicine. *Dialogues in Dermatology* July, 1999.

3. Bigby M, Qureshi A. Virtual dermatology patients (CD) 2001.